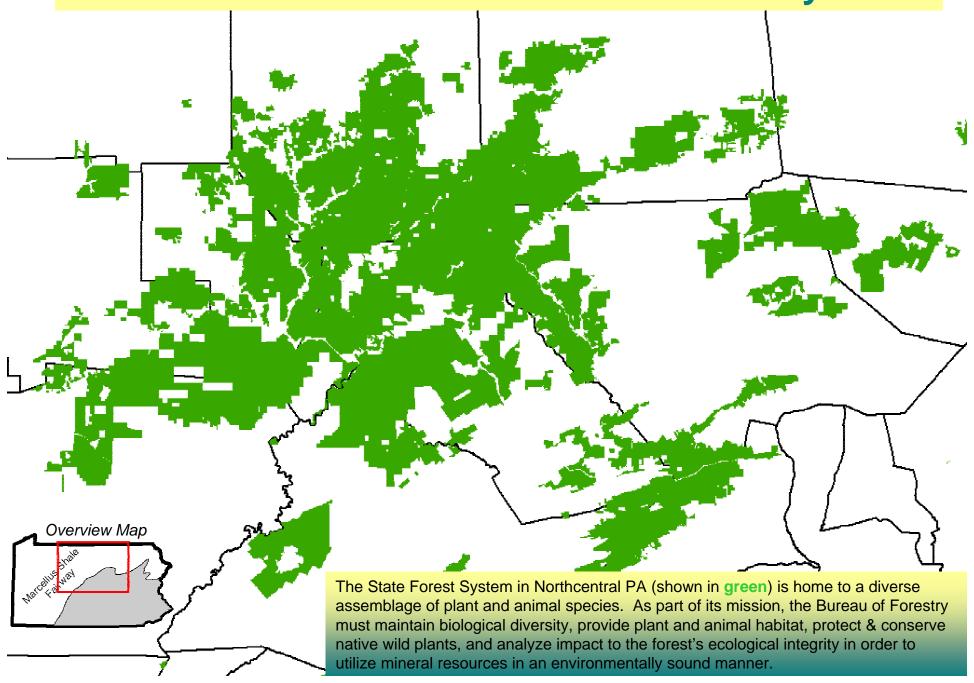
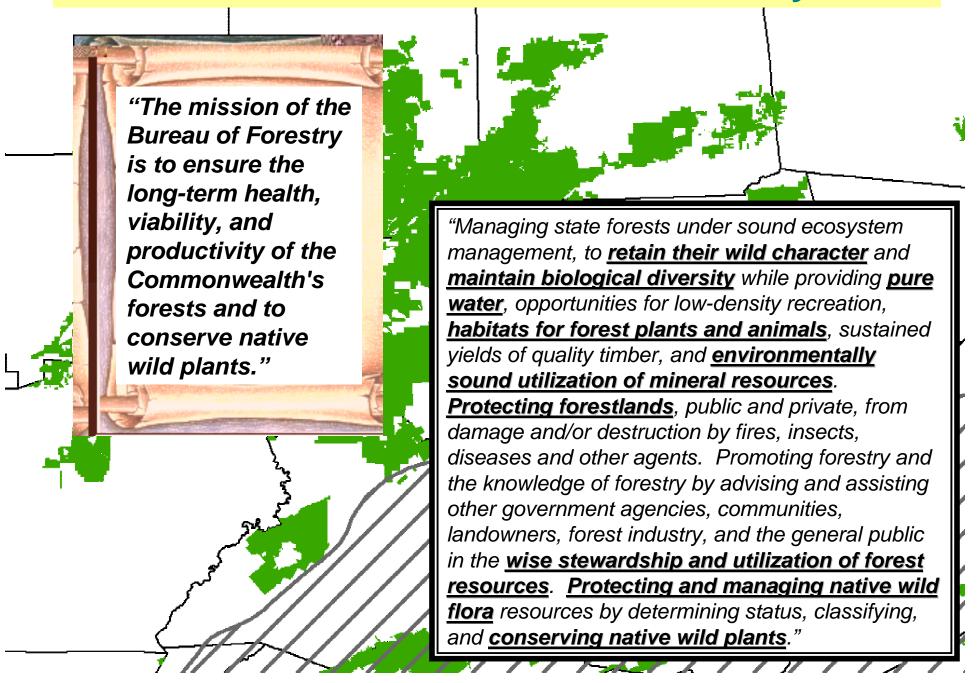
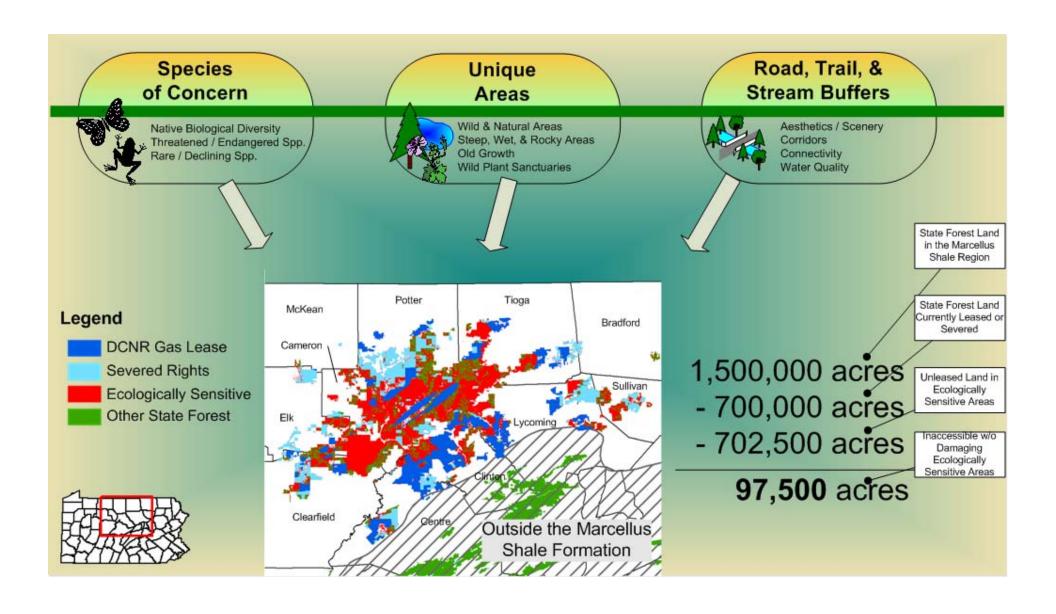
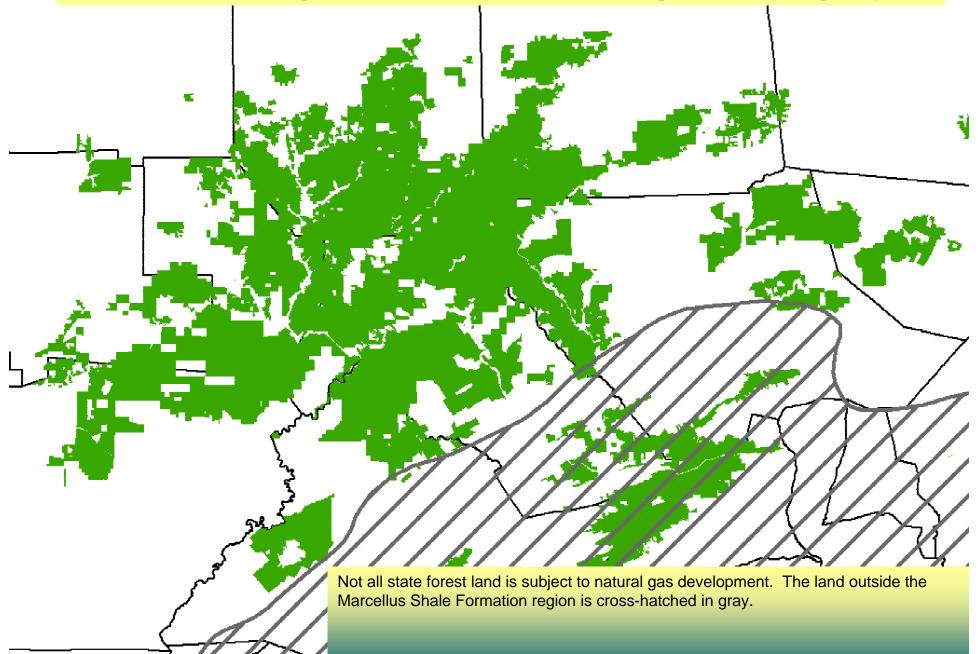
#### **State Forest Land in North-Central Pennsylvania**



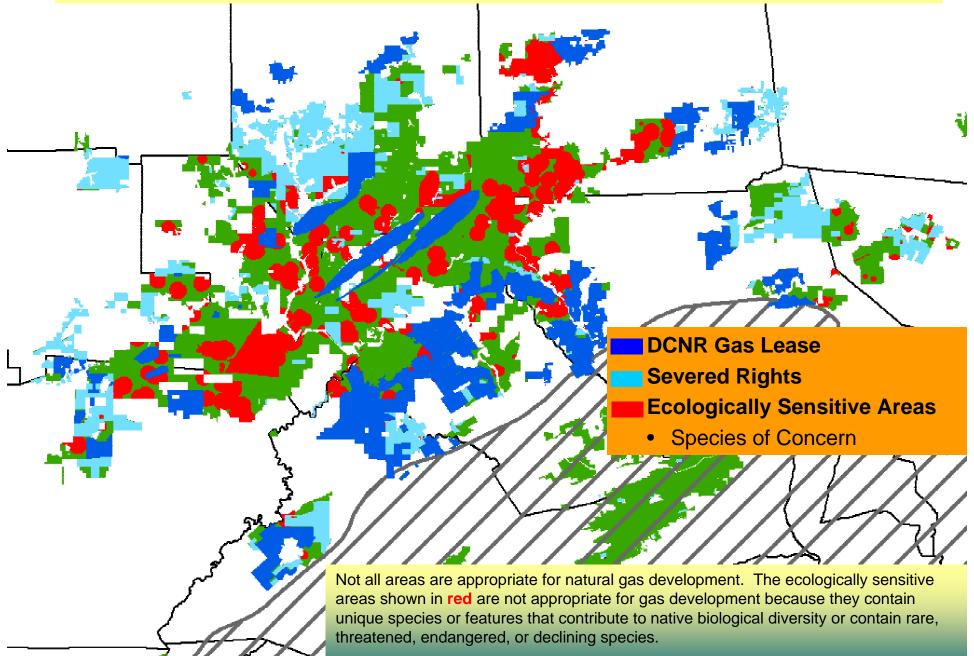
#### State Forest Land in Northcentral Pennsylvania

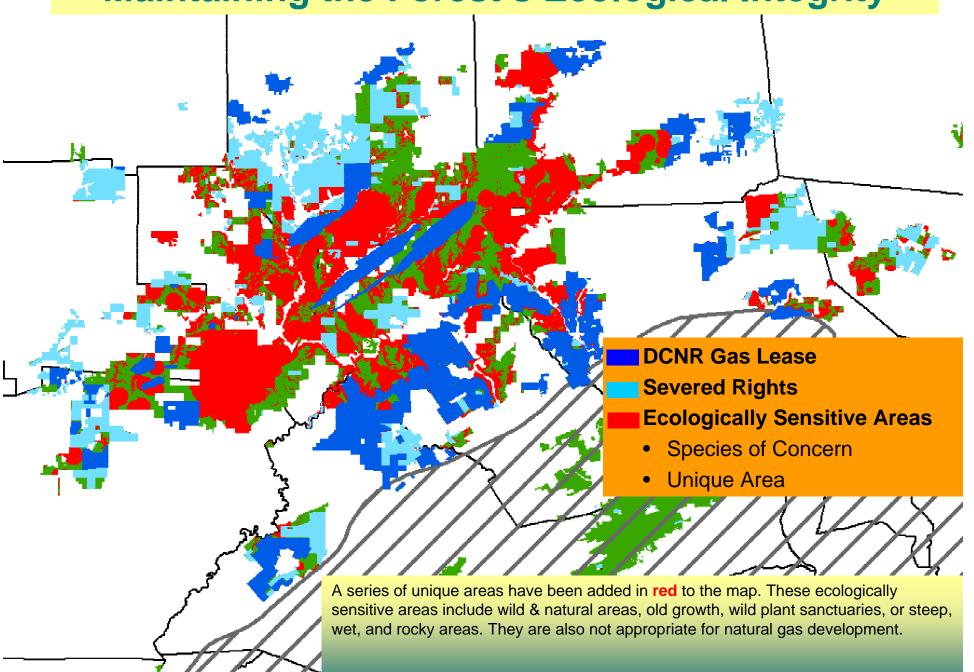


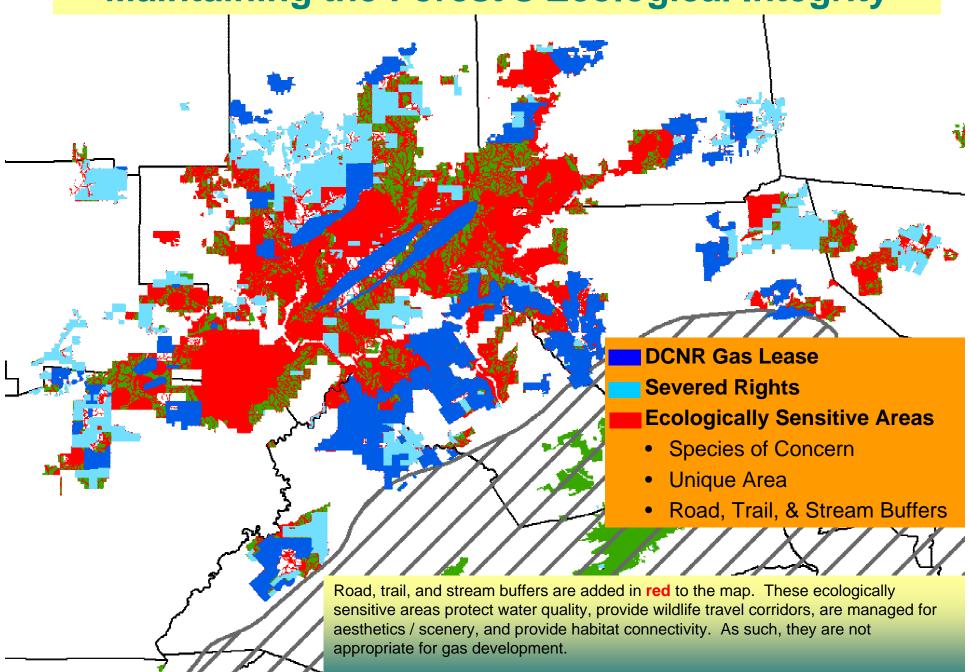


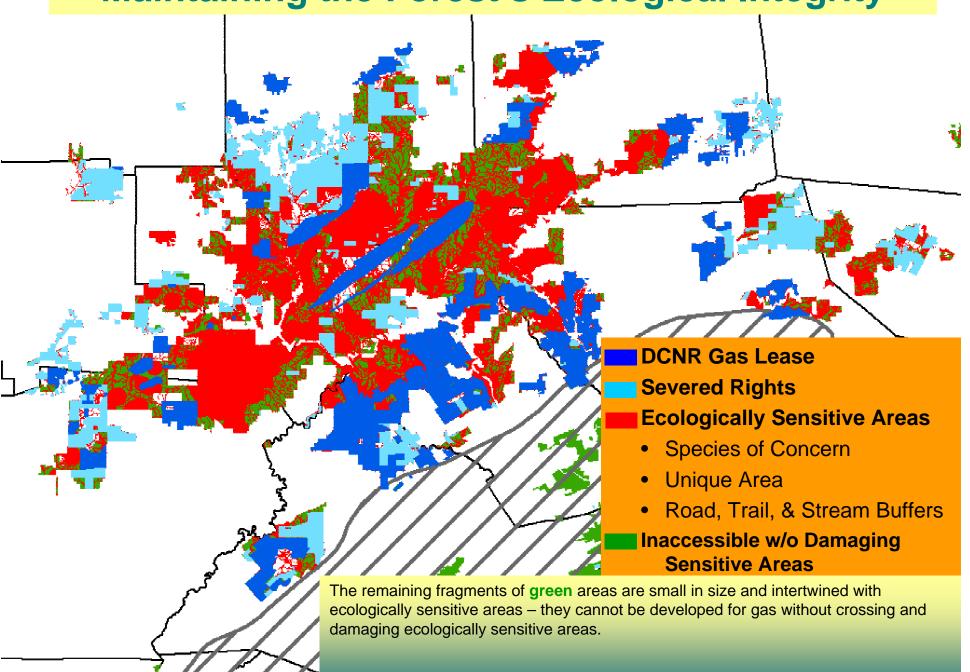


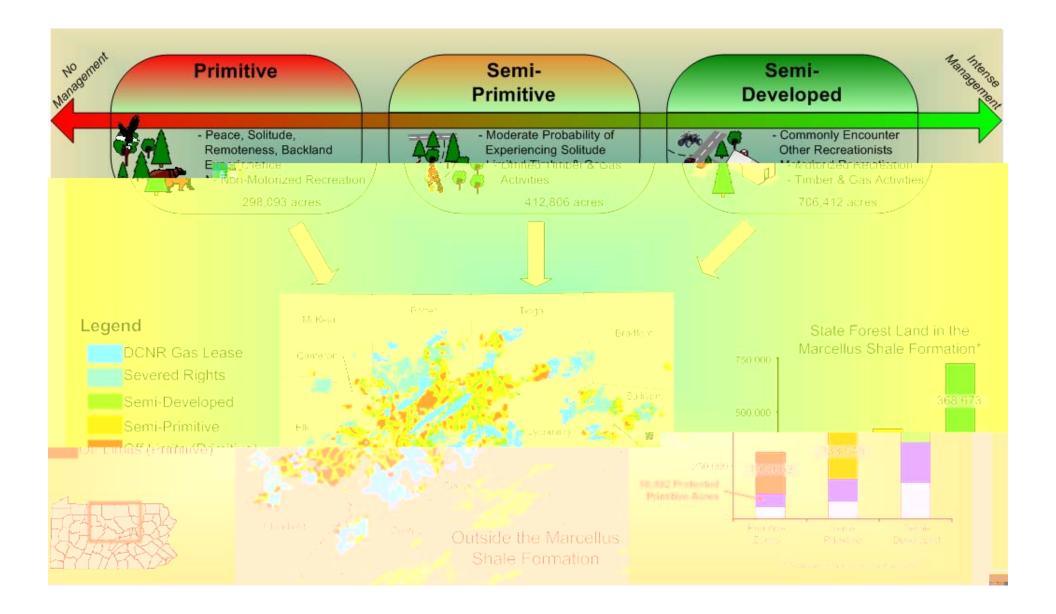
### **Maintaining the Forest's Ecological Integrity DCNR Gas Lease Severed Rights** DCNR does not own mineral rights to approximately 15% of State Forest Land. These acres are unavailable for leasing and are shown in light blue. Although these areas are not available for leasing, they are subject to natural gas development by the private owners who own the subsurface rights.

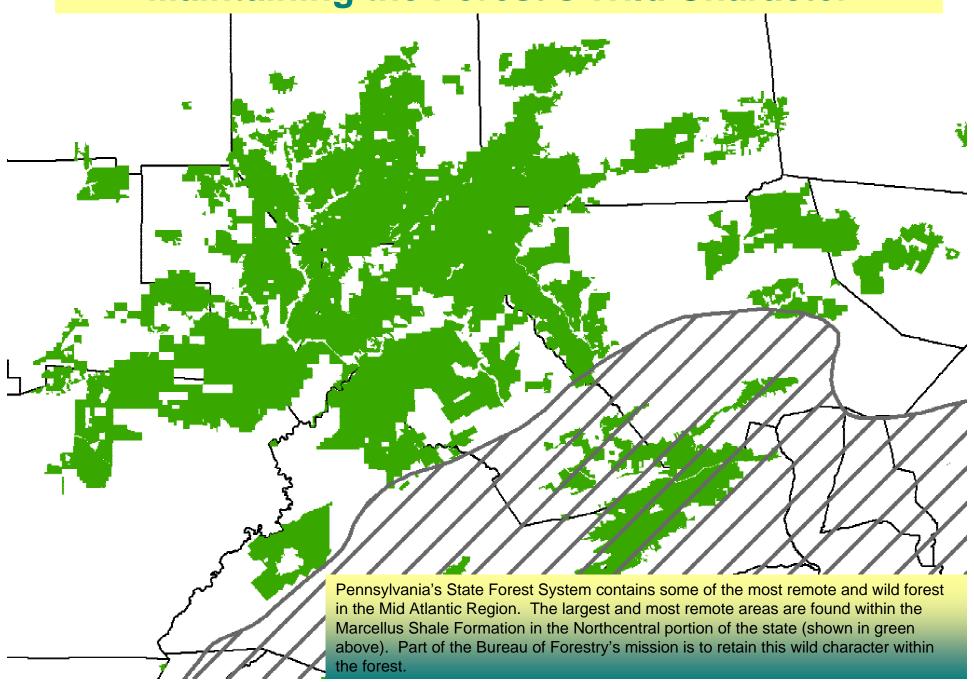


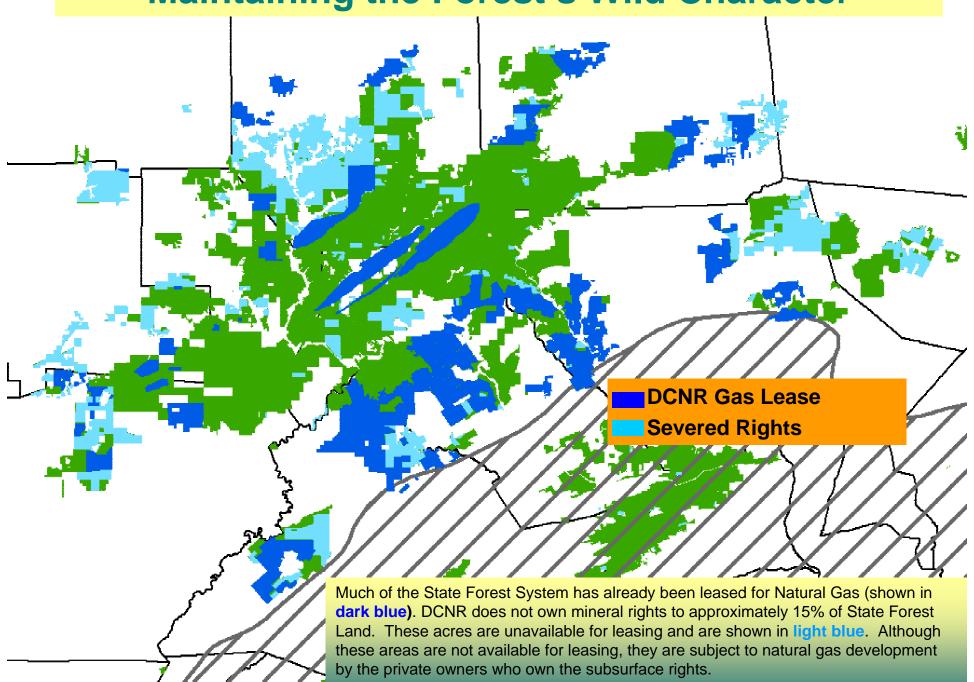


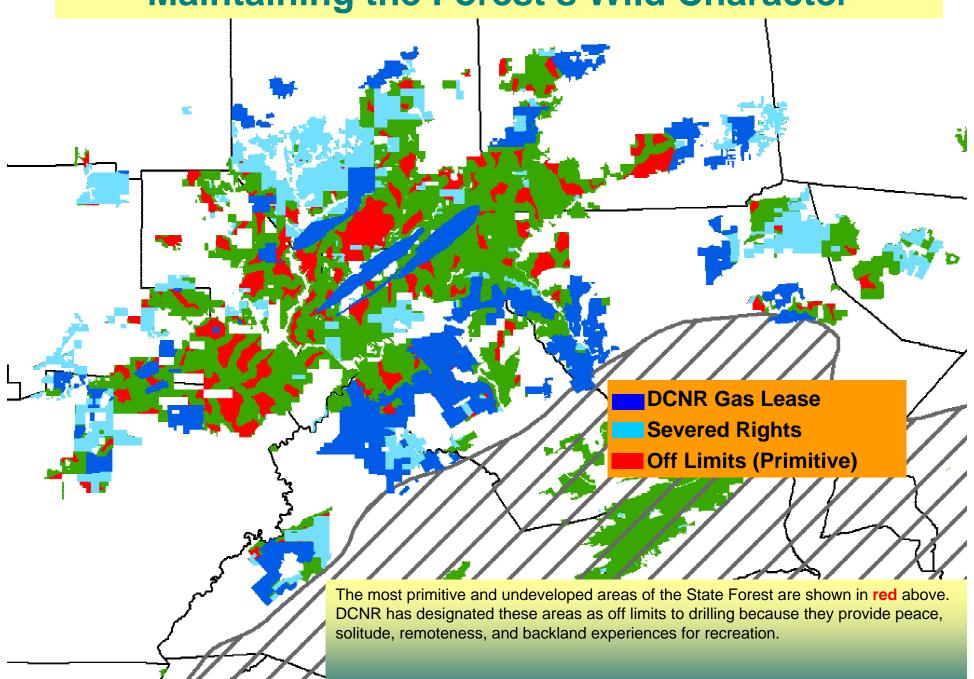


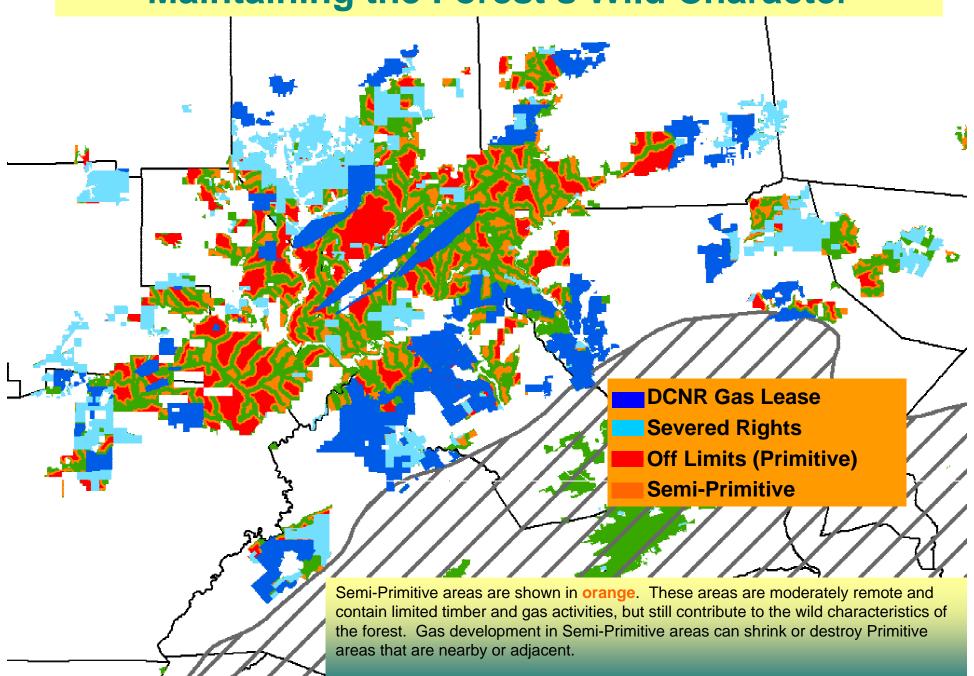


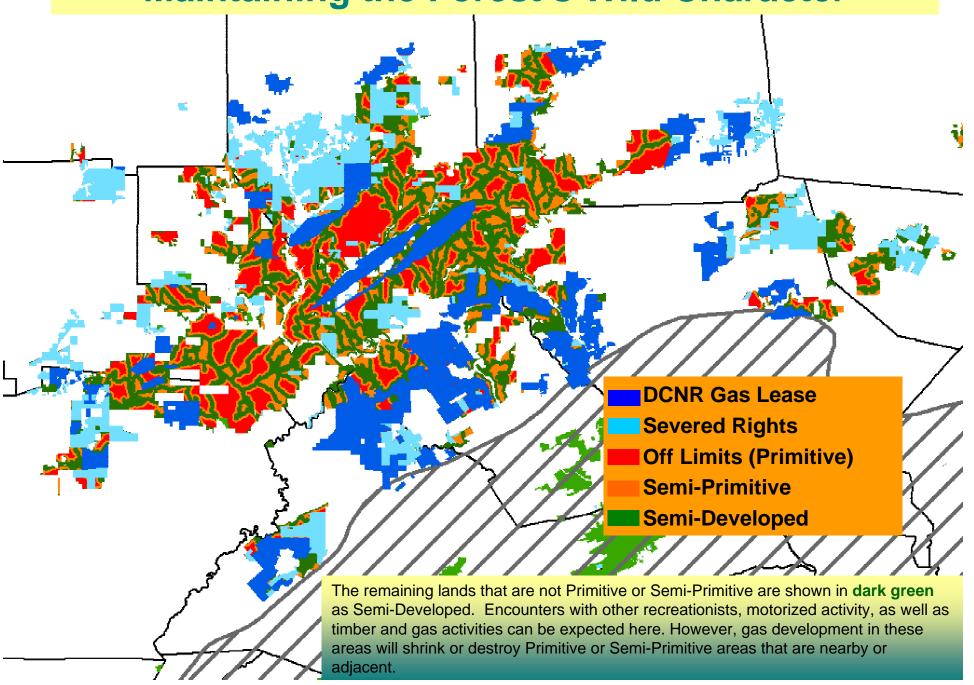




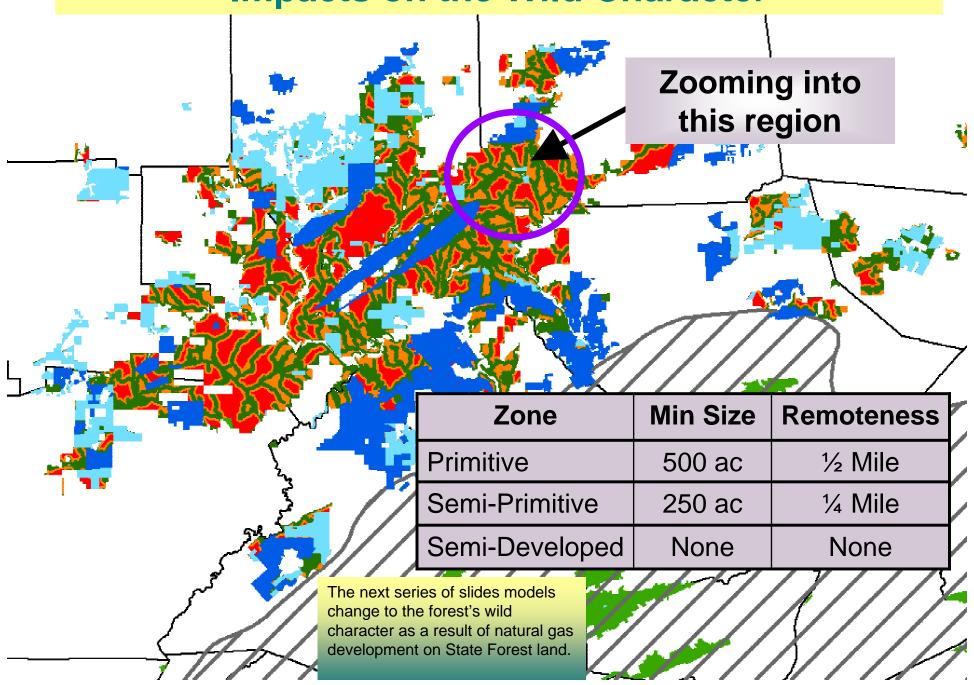






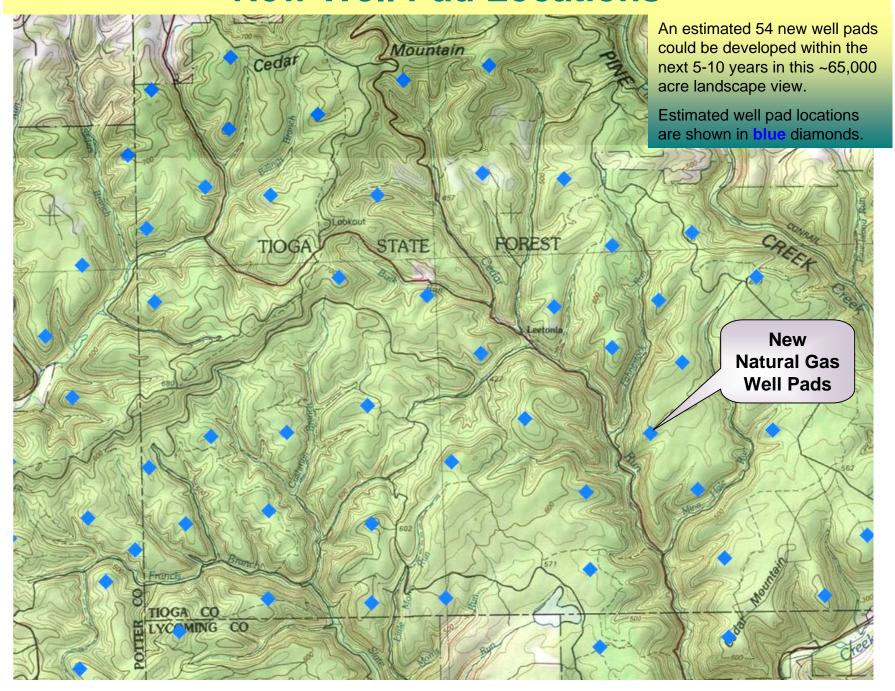




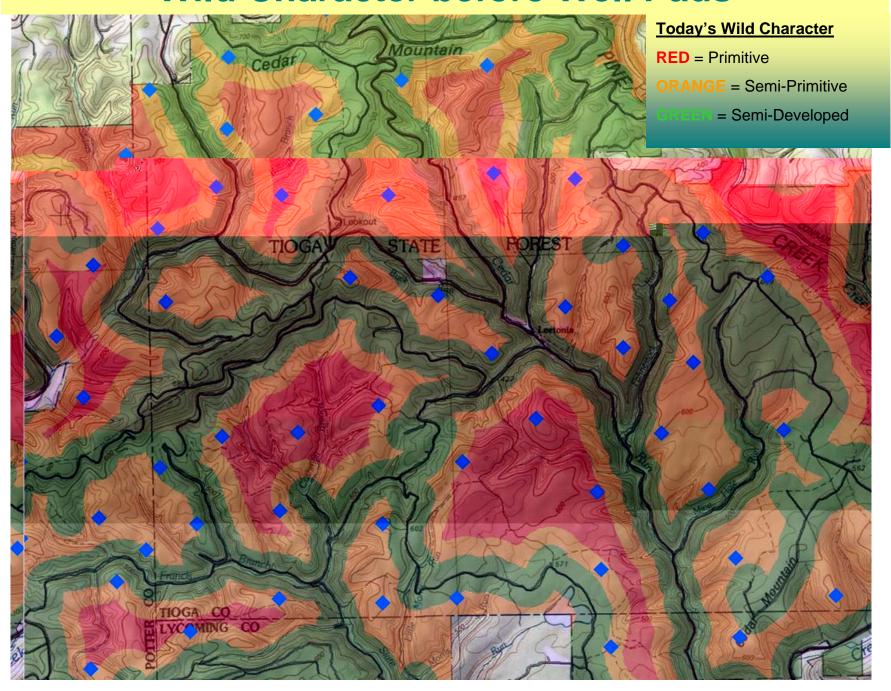


#### **Topography**

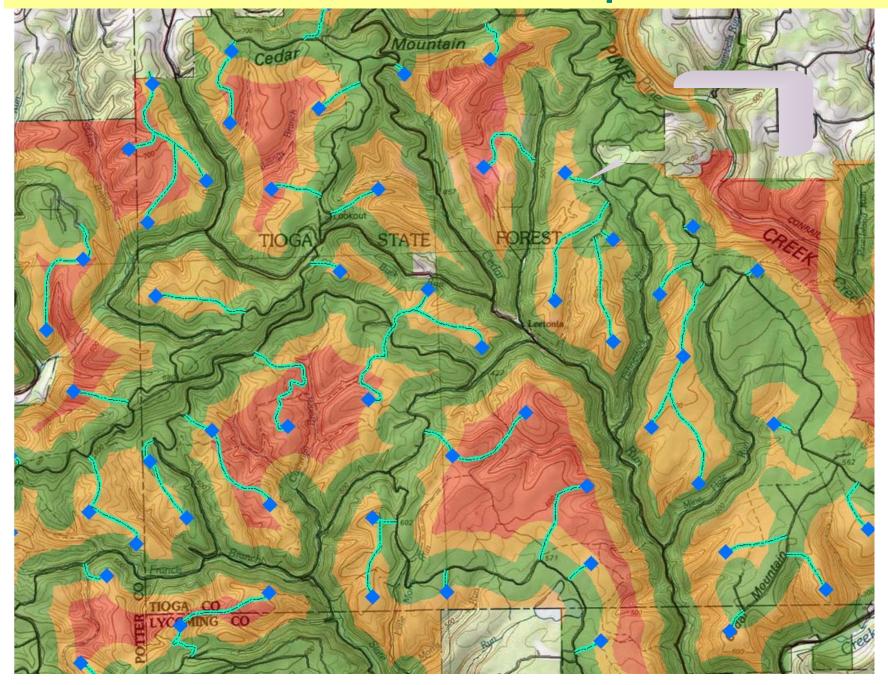
#### **New Well Pad Locations**



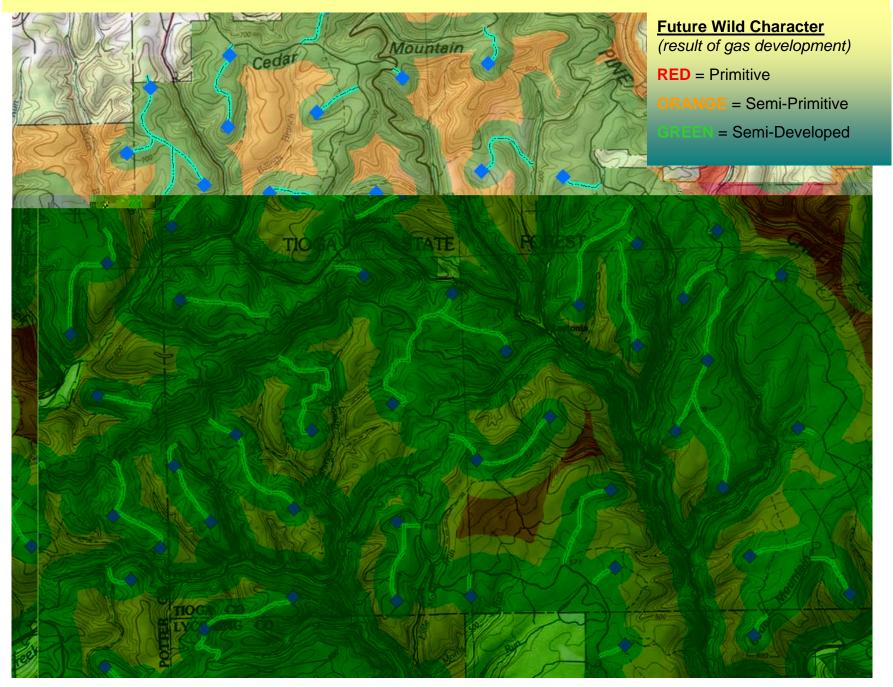
#### Wild Character before Well Pads



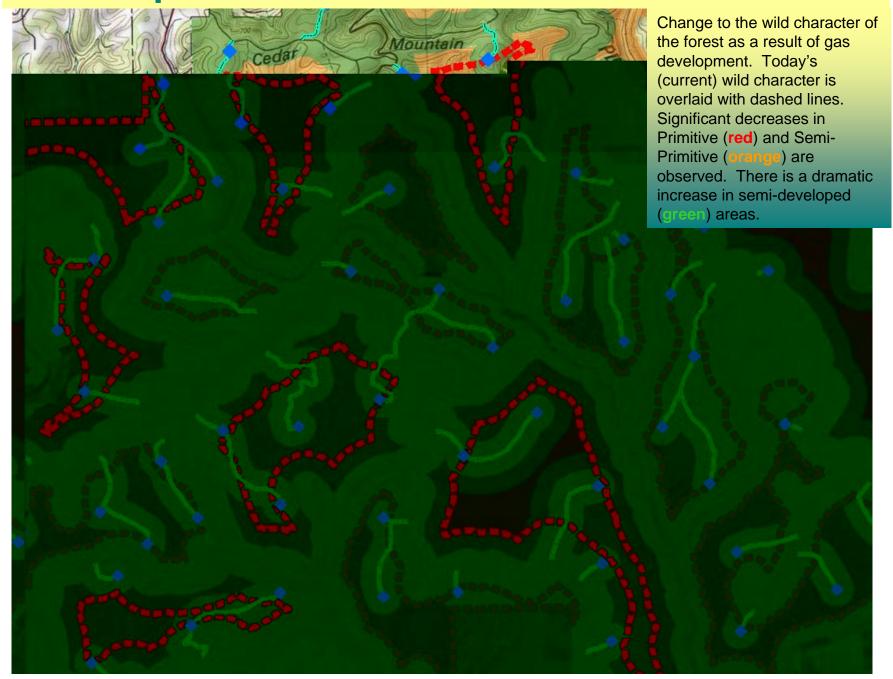
#### **New Access Roads Required**



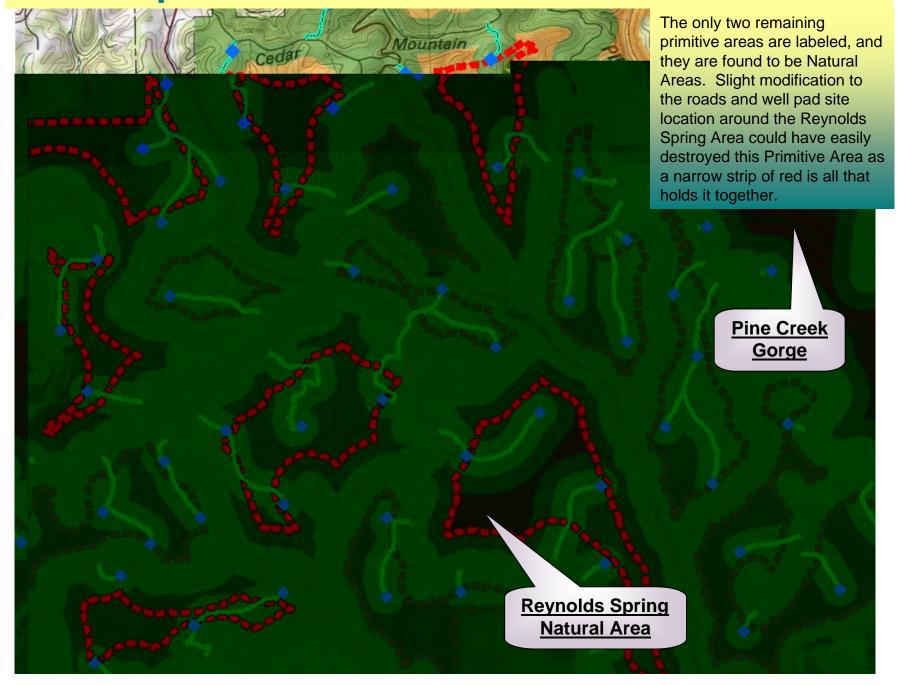
#### Forest's Wild Character with New Well Pads



#### Impact on the Forest's Wild Character

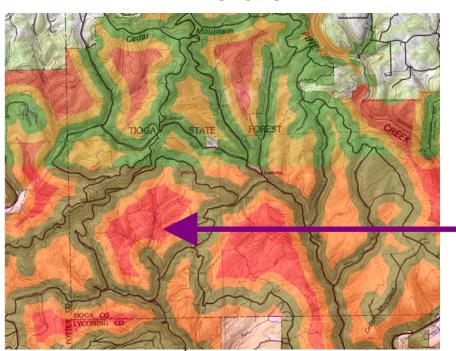


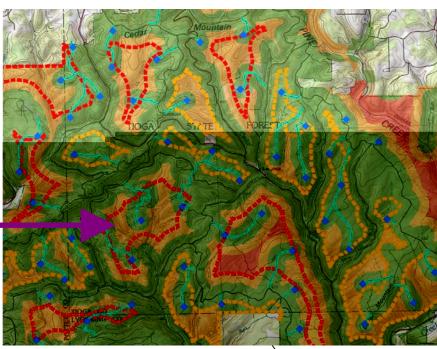
#### Impact on the Forest's Wild Character



#### **Change in the Forest's Wild Character**

Before After

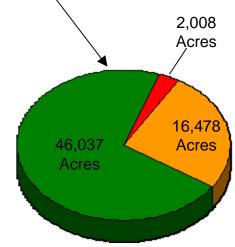




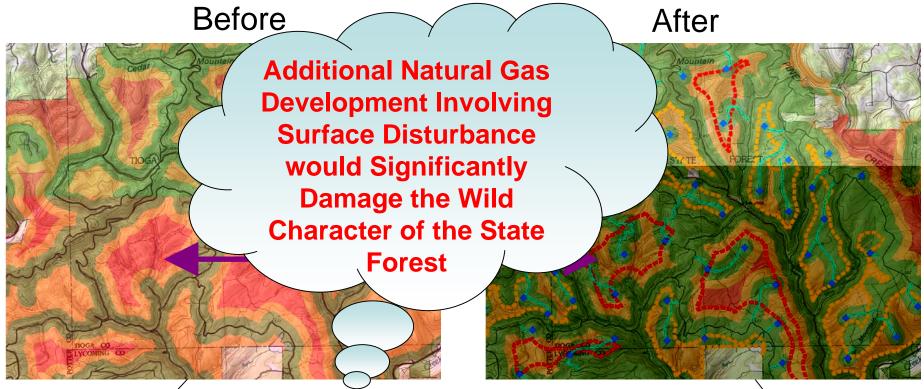
In this ~65,000 acre landscape view, with 54 new well pads...

	10,179
32,493 Acres	Acres 21,852 Acres

Zone	Net Gain/Loss		
■Primitive	-8,171		
■Semi-Primitive	-5,374		
■Semi-Developed	13,545		

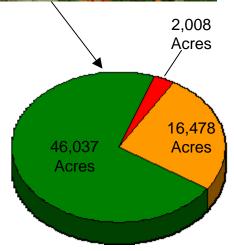


#### Modeling Change in the Forest's Wild Character



32,493 Acres 21,852 Acres In this ~65,000 acre landscape view, with 54 new well pads...

Zone	Net Gain/Loss		
Primitive	-8,171		
■Semi-Primitive	-5,374		
■Semi-Developed	13,545		



### **Maintaining the Forest's Wild Character** Gas development on surrounding **Private Land** private land also has a lasting impact on the state forest's wild **Impacts** character.

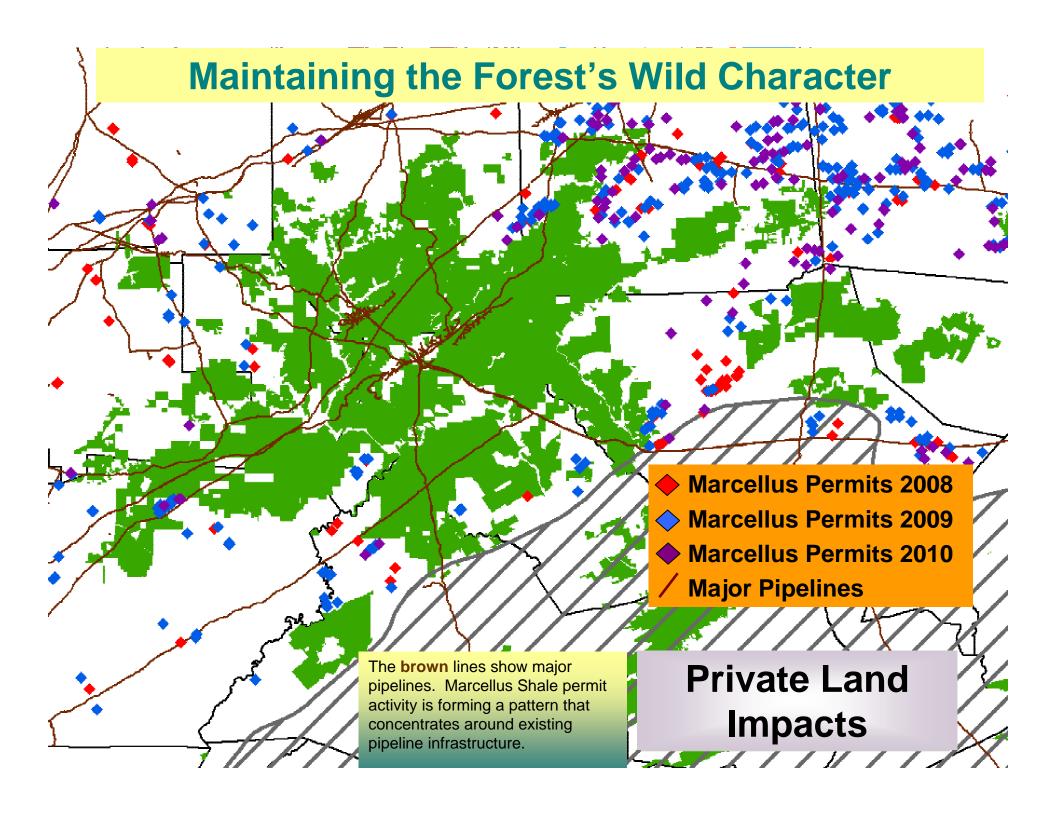
### **Maintaining the Forest's Wild Character Marcellus Permits 2008** The red points are private land **Private Land** Marcellus Shale well permits issued in 2008. **Impacts**

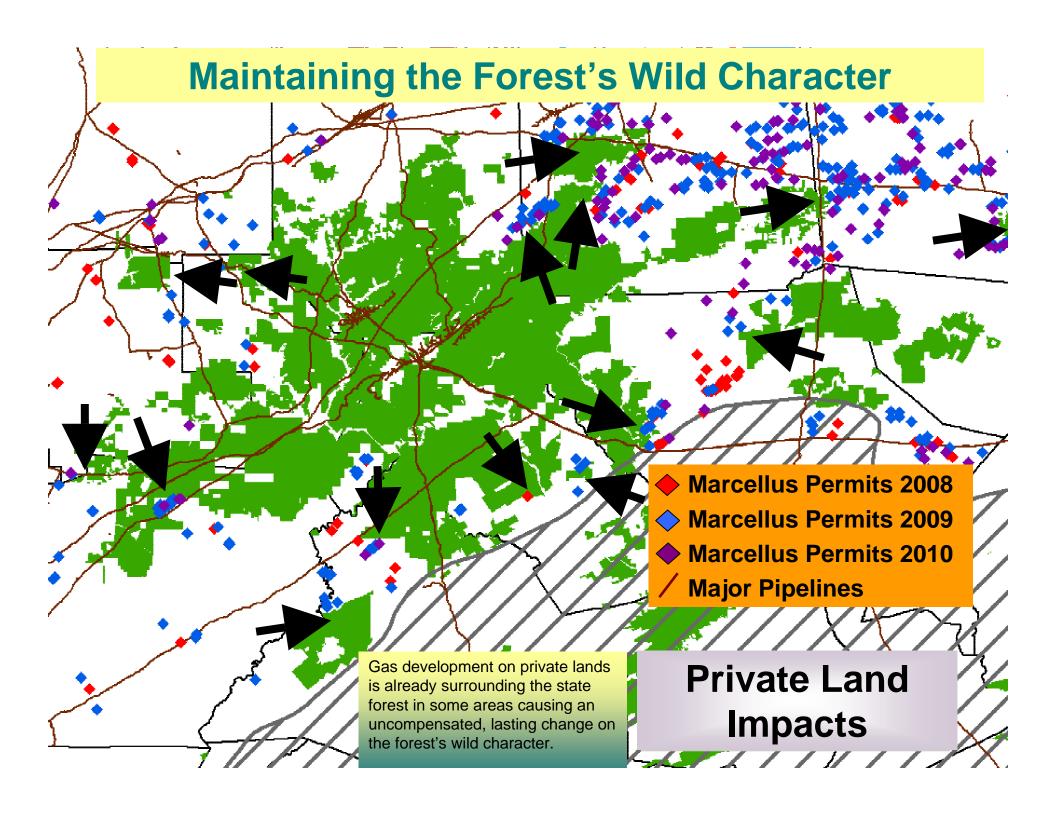
### **Maintaining the Forest's Wild Character Marcellus Permits 2008** ♦ Marcellus Permits 2009 The **blue** points are private land **Private Land** Marcellus Shale well permits issued in 2009. **Impacts**

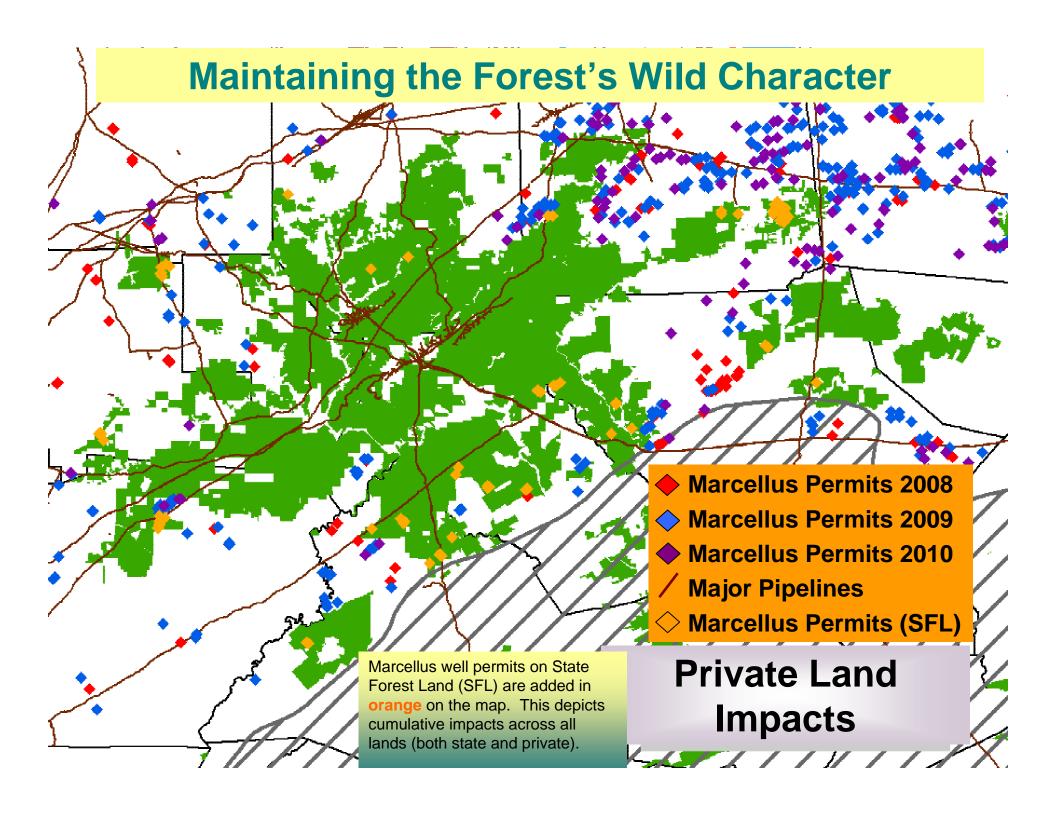
# **Maintaining the Forest's Wild Character Marcellus Permits 2008** ♦ Marcellus Permits 2009 **Marcellus Permits 2010**

The **purple** points are private land Marcellus Shale well permits issued in 2010.

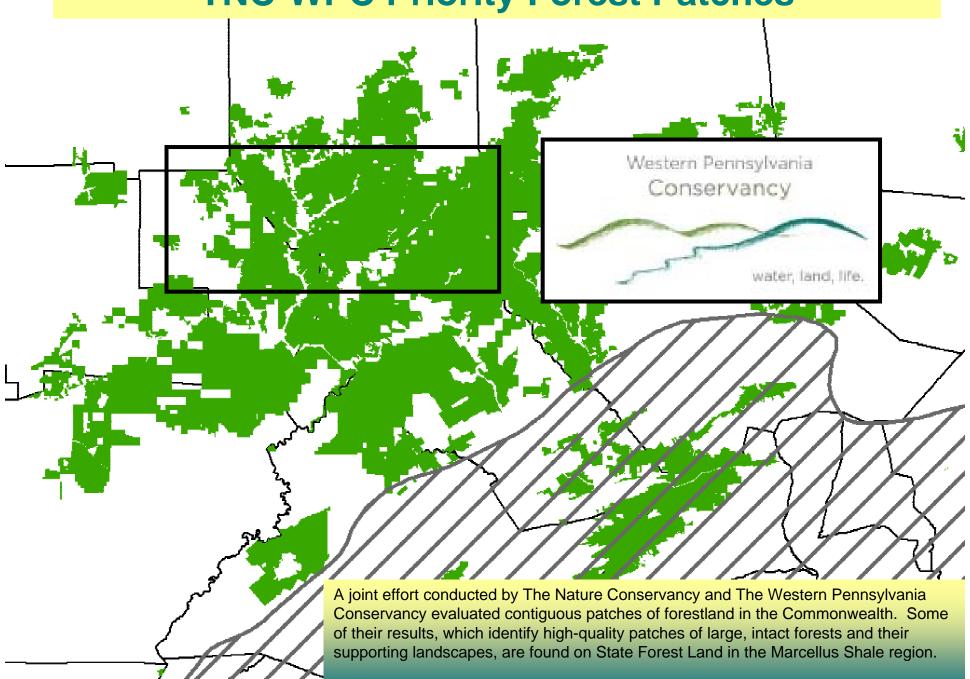
Private Land Impacts



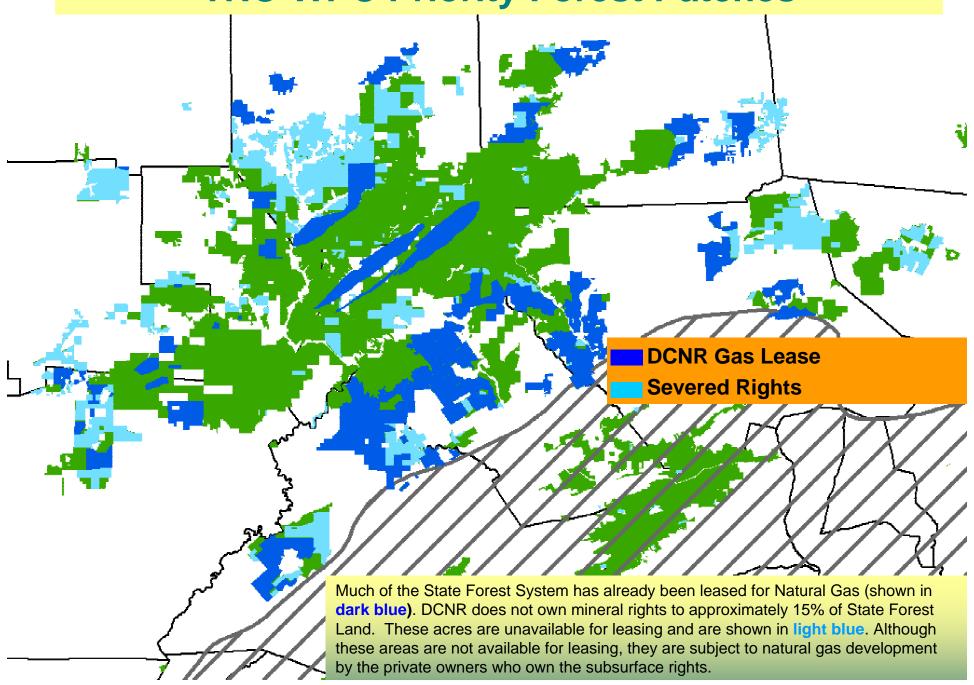




#### **TNC-WPC Priority Forest Patches**



#### **TNC-WPC Priority Forest Patches**



#### **TNC-WPC Priority Forest Patches**

